

**GOVERNMENT OF INDIA
SPACE
LOK SABHA**

UNSTARRED QUESTION NO:1076

ANSWERED ON:08.02.2017

Rockets Launched by ISRO

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Will the Minister of SPACE be pleased to state:

- (a) the number of rocket launches undertaken by ISRO during the last three years;
- (b) the number of foreign satellites launched, expenditure incurred thereon and revenue raised therefrom;
- (c) the number of rocket launches and satellite launches proposed during the ensuing three years; and
- (d) the funds provided and the R&D activities undertaken by ISRO during the said period along with the new technologies developed?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PG & PENSIONS AND IN THE PRIME MINISTER'S OFFICE
(DR. JITENDRA SINGH):

(a) During the last three years i.e. January 2014 to December 2016, ISRO has undertaken seventeen (17) rocket launches, which includes thirteen (13) launches of PSLV, three (03) launches of GSLV and one (01) experimental flight of GSLV-MkIII.

(b) During the last three years i.e. January 2014 to December 2016, 44 satellites from 8 countries have been successfully launched by ISRO on-board Polar Satellite Launch Vehicles (PSLVs). These satellites were launched under a commercial arrangement between Antrix Corporation Limited (Antrix), the commercial arm of ISRO and the foreign customers. Antrix has earned a total revenue of about 98 Million Euros through launching of these 44 foreign satellites.

(c) About Twenty-Four (24) satellites are proposed to be realised during the ensuing three years i.e. January 2017 to December 2019. Out of these, twenty-two (22) satellites will be launched using twenty Indian launch vehicles and two (2) satellites will be launched through procured launch services.

(d) During the last three years i.e. 2013-14, 2014-15 and 2015-16, the funds allocated to Department of Space are given below:

Financial Year Amount Allocated (RE)

(Rs. in Crore)

2013-14 5172.04

2014-15 5826.00

2015-16 6959.44

During the above said period, various R&D activities undertaken by the Department towards development of technologies include (i) development of Air Breathing Propulsion, (ii) Re-usable Launch Vehicle-Technology Demonstrator, (iii) High Thrust Cryogenic Engine (iv) re-entry technologies Crew Module, (v) Multi-object Tracking Radar (vi) Lithium ion Batteries, (vii) 75mN Stationary Plasma Thrusters, (viii) Pressure Transducer (ix) Search and Rescue Beacon, (x) 6m S-Band unfurlable Antenna, (xi) NavIC constellation for navigational Services (xii) Geo-stationary atmospheric sounder, (xiii) Critical Technologies for Human Spaceflight, (xiv) Indigenization of Space Materials & Components.
